AMERON
INTERNATIONAL

PSX 700

Engineered Siloxane Coating

U.S. patent nos. 5,618,860 and 5,275,645
international patents pending

Product Data

- **Unique, high-gloss, engineered siloxane**
- **Can be applied directly over inorganic zinc**
- **Gloss and appearance retention exceeding the best polyurethane**
- **Significantly lower applied costs**
- **Excellent corrosion resistance**
- **High solids, VOC compliant**
- **Applied by brush, roller or spray, without thinning**

Characteristics

PSX Advantage: PSX 700 is a patented engineered siloxane coating and embodies the properties of both a high performance epoxy and a polyurethane in one coat. This general purpose coating offers "breakthrough" weather resistance and corrosion control.

Typical Uses

PSX 700 adheres strongly to coated steel and inorganic zinc silicate coated surfaces on new construction, repair and field maintenance coating projects. It provides effective long term corrosion control and weatherability. Typical areas of use include:

- Structural steel;
- Industrial plants: chemical, petrochemical;
- Power plants: conventional, nuclear;
- Offshore industry: superstructures;
- Wastewater treatment plants;
- Pulp and paper industry;
- Marine: decks, topsides and boottops on ships and barges;
- Concrete walls and floors;
- Transportation: rail car exteriors, vehicle equipment, buses, trucks;

Resistance Guide

Environment	Splash and spillage	Fumes and weather
Acidic	E	E
Alkaline	E	E
Salt solutions		
acidic	E	E
neutral	E	E
alkaline	E	E
Fresh water	E	E
Solvents	E	E
Petroleum products	E	E

E = Excellent

Physical Data

Finish	gloss
Colour	RAL and BS colours*
Substrate	primed steel, concrete
Components	2
Curing mechanism	chemical reaction
Volume solids	90% (ASTM D2697, modified)**
VOC	8% by weight / 120 g/l
Dry film thickness****	75 - 175 µm per coat
Number of coats	1 or 2 *
Calculated coverage	7.2 m²/l at 125 µm

Allow for application losses, surface irregularities, etc.

Application methods	conventional or airless spray, brush, roller.***
Potlife (at 20°C)	4 hours

Potlife is dependent on temperature and quantities mixed.

Drying times at 125 µm dft and 20°C in hours

	30°C	20°C	10°C	5°C
dry to touch	1	2	4½	7
dry through	3	4½	8½	16

Induction time (at 20°C)	not required
Mixing ratio (by volume)	
resin	4 parts
cure	1 part
Specific gravity	1.36 kg/l (mixed product)
Thinner	Amercoat 911 or Amercoat 900
Cleaner	Amercoat 12
Flash points (Closed Cup)	
resin	97°C
cure	96°C
Amercoat 911	27°C
Amercoat 900	-5°C
Amercoat 12	24°C
Packaging	
resin	16 l in a 20 l can
cure	4 l in a 5 l can
Shipping weight	
resin	approx. 25.5 kg
cure	approx. 4.4 kg
Shelf life	
resin and cure	1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C.

* colours with reduced hiding power (e.g. bright oranges and yellows) must be applied over a white substrate. Appearance will vary depending on substrate and application method. Use two coats of PSX 700 over bare concrete.
**Volume solids is measured in accordance with ASTM-D2697 modified. Slight variations ±3% may occur due to colour and testing variances.
*** Brush or roller application may require additional coats.
**** When applying more than 1 coat it is recommended that the total dry film thickness does not exceed 250 microns

PSX700pd – R04/08/2003 supersedes R19/01/2000

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